

| Ref # | Hits | Search Query  | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------|------------------|---------|------------------|
| L18   | 98   | ("6151599" "6144959" "5944824" "5560008" "5719941" "5812784" "5764890" "5586260" "5682478" "5918228" "6006018" "6067623" "6154751" "6301661" "6510523" "6751677" "6075860" "6081508" "6205480" "6311269" "6438600" "4888801" "5696824" "6052785" "5636280" "5764887" "5864665" "6088451" "6148402" "6189103" "6195682" "5534855" "5590199" "5604490" "5619657" "5809144" "5870473" "5875296" "6006334" "6219439" "6219439" "6263446" "6356863" "6446206" "6643774" "6708170" "6874031" "6918041" "6920561" "5229764").pn. ("5276901" "5696880" "5757920" "5999711" "6119230" "5793866" "6047066" "6185316" "5768519" "5983353" "6601171" "6684330" "6742114" "6883716" "5235642" "5802276" "6189096" "6338064" "6606663" "6701353" "6748528" "6763459" "6769068" "6823452" "6836554" "6877026" "6892225" "6226752" "6226752" "6101543" "6775262" "6836474" "4926478" "5218637" "5293424" "5442704" "5475756" "5491827" "5774551" "5778072" "5862223" "5937159" "6055637" "6105137" "6182892" "6609198" "6668322" "6691232" "6704752" "6728723").pn. | US-PGPUB; USPAT        | OR               | ON      | 2005/08/26 11:07 |
| S1    | 2    | "5586260".pn. or "6067623".pn.  | US-PGPUB; USPAT        | OR               | ON      | 2005/08/25 09:38 |
| S8    | 401  | authenticat\$3 and client and gateway and map and credential  | US-PGPUB; USPAT        | OR               | ON      | 2005/08/25 10:12 |
| S9    | 130  | authenticat\$3 and client and gateway and map and credential  | USPAT                  | OR               | ON      | 2004/11/12 12:35 |
| S12   | 38   | authenticat\$4 with mobile with gateway   | USPAT                  | OR               | ON      | 2004/11/12 15:14 |
| S13   | 121  | 713/201.cccls. and gateway and map\$4 and authenticat\$3  | USPAT                  | OR               | ON      | 2004/11/12 15:25 |
| S14   | 409  | 713/156.cccls.  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/12 15:26 |
| S15   | 6    | network and content adj server and authenticat\$4 adj credential\$2 and gateway and map\$4  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/12 15:35 |
| S19   | 5    | mapping same authentication adj credentials   | US-PGPUB; USPAT        | OR               | ON      | 2004/11/12 15:46 |
| S20   | 11   | map\$4 same authentication adj credentials  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/12 15:53 |
| S21   | 43   | gateway same authentication same credentials  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/12 15:54 |
| S22   | 9    | gateway same authentication same credentials  | USPAT                  | OR               | ON      | 2004/11/12 15:54 |
| S23   | 9    | gateway same authenticat\$3 same credential\$3  | USPAT                  | OR               | ON      | 2004/11/12 15:54 |
| S24   | 11   | ("4438824"   "4652698"   "4779224"   "4962531"   "5010572"   "5204961"   "5218637"   "5235642"   "5241594"   "5321841"   "5457797").PN.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2004/11/12 15:55 |
| S25   | 138  | ("5586260").URPN.   | USPAT                  | OR               | ON      | 2004/11/12 16:00 |
| S26   | 138  | ("5586260").URPN.   | USPAT                  | OR               | ON      | 2004/11/12 16:02 |
| S27   | 6    | ("5586260"   "5596748"   "5604490"   "5689638"   "5872915"   "5884312").PN.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2004/11/12 16:19 |
| S28   | 10   | ("6067623").URPN.   | USPAT                  | OR               | ON      | 2004/11/12 16:30 |
| S29   | 23   | two same stage same authentication same process   | USPAT                  | OR               | ON      | 2004/11/12 16:33 |
| S30   | 0    | gateway adj authentication adj credentials  | USPAT                  | OR               | ON      | 2004/11/12 16:33 |
| S31   | 9    | gateway same authentication same credentials  | USPAT                  | OR               | ON      | 2004/11/12 16:34 |
| S32   | 409  | 713/156.cccls.  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/15 07:24 |
| S33   | 364  | 713/156.cccls. and authenticat\$4   | US-PGPUB; USPAT        | OR               | ON      | 2004/11/15 07:28 |
| S34   | 25   | 713/156.cccls. and authenticat\$4 and gateway and map\$4  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/15 07:38 |
| S35   | 116  | map\$4 same authenticat\$4 same credential\$4   | US-PGPUB; USPAT        | OR               | ON      | 2004/11/15 08:10 |
| S36   | 153  | authenticate same mobile same client  | US-PGPUB; USPAT        | OR               | ON      | 2004/11/15 08:10 |

|     |      |   |                        |    |    |                  |
|-----|------|---|------------------------|----|----|------------------|
| S37 | 1    | authenticate same mobile same client and @py<"2000"   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 08:10 |
| S38 | 3    | authenticate same mobile same client and @py<"2001"   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 08:11 |
| S39 | 22   | two-stage same authenticat\$4   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 08:16 |
| S41 | 38   | authenticat\$4 adj filter   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 08:17 |
| S43 | 27   | map\$4 adj authenticat\$4   | USPAT                  | OR | ON | 2004/11/15 08:32 |
| S44 | 11   | ("5610981"   "5774551"   "5826014"   "5875296"   "5944824"   "6041357"   "6161139"   "6226752"   "6275941"   "6308273"   "6408336").PN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/15 08:38 |
| S45 | 11   | ("4438824"   "4652698"   "4779224"   "4962531"   "5010572"   "5204961"   "5218637"   "5235642"   "5241594"   "5321841"   "5457797").PN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/15 08:41 |
| S46 | 138  | ("5586260").URPN..  | USPAT                  | OR | ON | 2004/11/15 08:43 |
| S47 | 6    | ("5586260"   "5596748"   "5604490"   "5689638"   "5872915"   "5884312").PN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/15 09:05 |
| S48 | 10   | ("6067623").URPN.   | USPAT                  | OR | ON | 2004/11/15 09:48 |
| S49 | 2870 | authenticat\$4 and domain adj name  | US-PGPUB; USPAT        | OR | ON | 2004/11/15 10:09 |
| S50 | 562  | authenticat\$4 same domain adj name   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 10:10 |
| S51 | 37   | authenticat\$4 same domain adj name and identity same map\$4  | US-PGPUB; USPAT        | OR | ON | 2004/11/15 10:10 |
| S54 | 160  | (authenticat\$4 same domain adj name) and ((identity same map\$4) or credential\$3)   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 10:15 |
| S55 | 162  | (authenticat\$4 same domain adj name) and ((identity same (map\$4 or transform\$4)) or credential\$3)   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 10:15 |
| S56 | 42   | (authenticat\$4 same domain adj name) and ((identity same (map\$4 or transform\$4)) or credential\$3)   | USPAT                  | OR | ON | 2004/11/15 10:23 |
| S58 | 39   | (authenticat\$4 same domain adj name) and ((identity same (map\$4 or transform\$4)) or credential\$3) and database  | USPAT                  | OR | ON | 2004/11/15 10:24 |
| S59 | 41   | (authenticat\$4 same domain adj name) and ((identity same (map\$4 or transform\$4)) or credential\$3) and (database or table)   | USPAT                  | OR | ON | 2004/11/15 10:34 |
| S60 | 107  | single adj sign-on  | USPAT                  | OR | ON | 2004/11/15 10:34 |
| S61 | 109  | single adj sign\$1on  | USPAT                  | OR | ON | 2004/11/15 10:35 |
| S63 | 73   | single adj sign\$1on and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)   | USPAT                  | OR | ON | 2004/11/15 11:43 |
| S64 | 11   | ("5610981"   "5774551"   "5826014"   "5875296"   "5944824"   "6041357"   "6161139"   "6226752"   "6275941"   "6308273"   "6408336").PN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/15 11:11 |
| S65 | 217  | single adj sign\$1on and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)   | US-PGPUB; USPAT        | OR | ON | 2004/11/15 11:47 |
| S66 | 12   | single adj sign\$1on and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.) and @py<"2000"  | USPAT                  | OR | ON | 2004/11/15 11:47 |
| S75 | 85   | single adj sign\$1on and domain adj name  | US-PGPUB; USPAT        | OR | ON | 2004/11/15 13:50 |
| S76 | 45   | single adj sign\$1on and domain adj name  | USPAT                  | OR | ON | 2004/11/15 13:50 |
| S77 | 4    | single adj sign\$1on same domain adj name   | USPAT                  | OR | ON | 2004/11/15 13:50 |
| S78 | 16   | ("4604686"   "4937036"   "4999766"   "5021949"   "5047923"   "5226172"   "5241594"   "5329619"   "5347632"   "5369778"   "5434918"   "5442342"   "5442771"   "5564043"   "5579479"   "5594910").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2004/11/15 13:52 |
| S79 | 2    | ("6178511").URPN.   | USPAT                  | OR | ON | 2004/11/15 14:02 |
| S81 | 866  | domain adj name and authenticat\$4  | USPAT                  | OR | ON | 2004/11/15 14:03 |
| S82 | 45   | domain adj name and authenticat\$4 and (single adj sign\$1on or map\$3 adj credential\$3)   | USPAT                  | OR | ON | 2004/11/15 14:03 |

|      |      |  |                              |    |    |                  |
|------|------|--|------------------------------|----|----|------------------|
| S83  | 106  | domain adj name and authenticat\$4 and (single adj sign\$1on or map\$3 adj credential\$3 or transform\$4 same user\$4)<br>(different or distinct) adj4 domain adj name         | USPAT                        | OR | ON | 2004/11/15 14:30 |
| S85  | 41   | ((different or distinct) adj4 domain adj name)   | USPAT                        | OR | ON | 2004/11/15 14:32 |
| S90  | 133  | ((different or distinct) adj4 domain adj name) and single  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:33 |
| S91  | 156  | ((different or distinct) adj4 domain adj name)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:34 |
| S92  | 225  | ((different or distinct or chang\$4) adj4 domain adj name)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:34 |
| S93  | 87   | ((chang\$4) adj4 domain adj name)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:40 |
| S94  | 483  | (single or multiple) adj sign\$1on   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:41 |
| S95  | 217  | (single or multiple) adj sign\$1on and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/15 14:41 |
| S96  | 73   | (single or multiple) adj sign\$1on and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)  | USPAT                        | OR | ON | 2004/11/15 14:43 |
| S100 | 37   | gateway and wireless and authenticat\$4 and client\$3 and map and credential\$2 and identit\$4 and domain and name   | USPAT                        | OR | ON | 2004/11/15 15:28 |
| S102 | 29   | gateway and wireless and authenticat\$4 and client\$3 and map and credential\$2 and identit\$4 and domain and name and sign-on   | USPAT                        | OR | ON | 2004/11/15 15:31 |
| S103 | 15   | gateway and wireless and authenticat\$4 and client\$3 and map and credential\$2 and identit\$4 and domain and name and sign-on   | US-PGPUB                     | OR | ON | 2004/11/15 15:32 |
| S104 | 132  | gateway and wireless and authenticat\$4 and client\$3 and map and credential\$2 and identit\$4 and domain and name   | US-PGPUB                     | OR | ON | 2004/11/15 15:32 |
| S105 | 37   | gateway and wireless and authenticat\$4 and client\$3 and map and credential\$2 and identit\$4 and domain and name   | USPAT                        | OR | ON | 2004/11/15 15:34 |
| S107 | 34   | gateway.clm. and gateway.ab. and gateway.detd. and authenticat\$3.clm. and authenticat\$3.ab. and authenticat\$3.detd.   | USPAT                        | OR | ON | 2004/11/15 15:37 |
| S115 | 207  | single adj3 (log-on or log\$1on or sig\$1on or sign-on or login or logon or signon)  | USPAT                        | OR | ON | 2004/11/15 15:43 |
| S116 | 207  | single adj3 (log-on or log\$1on or sig\$1on or sign-on or login or logon or signon)  | USPAT                        | OR | ON | 2004/11/15 15:44 |
| S117 | 69   | single adj3 (log-on or log\$1on or sig\$1on or sign-on or login or logon or signon) and wireless   | USPAT                        | OR | ON | 2004/11/15 15:44 |
| S118 | 2    | ("5826014"   "5875296").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2004/11/15 15:48 |
| S120 | 120  | SSO and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/16 08:10 |
| S121 | 56   | SSO and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.)   | USPAT                        | OR | ON | 2004/11/16 08:11 |
| S122 | 31   | SSO and ("713"/\$.ccls. or "380"/\$.ccls. or "709"/\$.ccls.) and wire\$4   | USPAT                        | OR | ON | 2004/11/16 08:11 |
| S127 | 40   | mobile same authenticat\$4 same (alter or modify or chage or append)   | USPAT                        | OR | ON | 2004/11/16 12:13 |
| S130 | 72   | mobile same authenticat\$4 and telephone and (WAP or wireless adj application adj protocol)  | USPAT                        | OR | ON | 2004/11/16 12:14 |
| S132 | 65   | (mobile same authenticat\$4) and telephone and (WAP or wireless adj application adj protocol) and (modify or alter or change or append or mutate or refashion or turn or vary) | USPAT                        | OR | ON | 2004/11/16 12:18 |
| S136 | 10   | gateway same (WAP or wireless adj application adj protocol) same server same authenticat\$4  | USPAT                        | OR | ON | 2004/11/16 14:41 |
| S137 | 75   | gateway same (WAP or wireless adj application adj protocol) same server same authenticat\$4  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/16 14:44 |
| S138 | 4    | gateway same (WAP or wireless adj application adj protocol) same server same authenticat\$4 and (SSO or single adj sign-on)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/16 14:51 |
| S139 | 1335 | gateway same (WAP or wireless adj application adj protocol)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/16 14:51 |

|          |      |  |                    |    |    |                  |
|----------|------|--|--------------------|----|----|------------------|
| S14<br>0 | 118  | gateway same (WAP or wireless adj application adj protocol) adj server   | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 14:52 |
| S14<br>1 | 13   | gateway same (WAP or wireless adj application adj protocol) adj server   | USPAT              | OR | ON | 2004/11/16 14:54 |
| S14<br>2 | 3    | gateway same (WAP or wireless adj application adj protocol) adj server same authenticat\$4   | USPAT              | OR | ON | 2004/11/16 16:13 |
| S14<br>3 | 109  | single adj sign\$1on   | USPAT              | OR | ON | 2004/11/16 16:13 |
| S14<br>4 | 483  | single adj sign\$1on   | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:13 |
| S14<br>5 | 1215 | (single adj sign\$1on or SSO)  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:13 |
| S14<br>6 | 225  | (single adj sign\$1on or SSO) same (alter or modify or change or append or mutate or refashion or turn or vary)  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:15 |
| S14<br>7 | 238  | (single adj sign\$1on or SSO) and ((alter or modify or change or append or mutate or refashion or turn or vary) same authenticat\$4)                         | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:16 |
| S14<br>8 | 4    | (single adj sign\$1on or SSO) and ((alter or modify or change or append or mutate or refashion or turn or vary) same authenticat\$4) same gateway            | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:19 |
| S14<br>9 | 145  | (single adj sign\$1on or SSO) and ((alter or modify or change or append or mutate or refashion or turn or vary) same authenticat\$4) and gateway             | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:21 |
| S15<br>0 | 139  | (single adj sign\$1on or SSO) and ((alter or modify or change or append or mutate or refashion or vary) same authenticat\$4) and gateway                     | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:21 |
| S15<br>2 | 134  | (single adj sign\$1on or SSO) and ((alter or modify or change or append) same authenticat\$4) and gateway  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:21 |
| S15<br>3 | 6    | (single adj sign\$1on or SSO) and ((alter or modify or change or append) same authenticat\$4) and gateway and (WAP or wireless adj application adj protocol) | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:25 |
| S15<br>6 | 69   | alter\$4 same authenticat\$4 same credential   | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:27 |
| S15<br>7 | 12   | (alter or altering) same authenticat\$4 same credential  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:30 |
| S15<br>9 | 30   | (alter or altering) same (authenticat\$4 same credential or username)  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:31 |
| S16<br>0 | 104  | (alter or altering) same (authenticat\$4 same credential or username or userid)  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:32 |
| S16<br>1 | 1157 | mobile same alter  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:32 |
| S16<br>2 | 14   | mobile same alter same id  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:41 |
| S16<br>3 | 5913 | authenticat\$4 same (alter or modify or change)  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:42 |
| S16<br>4 | 182  | authenticat\$4 same (alter or modify or change) same credential  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/16 16:58 |
| S17<br>0 | 58   | credentials same before same authenticat\$4  | USPAT              | OR | ON | 2004/11/16 17:13 |
| S17<br>3 | 13   | authenticate adj4 mobile adj5 user\$3  | USPAT              | OR | ON | 2004/11/16 17:22 |
| S17<br>4 | 553  | single adj sign-on or SSO  | USPAT              | OR | ON | 2004/11/16 17:23 |
| S17<br>5 | 107  | single adj sign-on or SSO and (send\$3 adj5 content adj3 client)   | USPAT              | OR | ON | 2004/11/16 17:24 |
| S17<br>9 | 11   | (single adj sign-on or SSO) and (send\$3 same content same client)   | USPAT              | OR | ON | 2004/11/16 17:41 |
| S18<br>0 | 3986 | content adj server   | US-PGPUB;<br>USPAT | OR | ON | 2004/11/17 07:36 |
| S18<br>1 | 311  | content adj server same gateway  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/17 07:36 |
| S18<br>2 | 21   | content adj server same gateway same authenticat\$4  | US-PGPUB;<br>USPAT | OR | ON | 2004/11/17 07:36 |

|          |      |   |                              |    |    |                  |
|----------|------|---|------------------------------|----|----|------------------|
| S18<br>3 | 48   | receiv\$3 adj request adj content   | USPAT                        | OR | ON | 2004/11/17 08:06 |
| S18<br>4 | 17   | receiv\$3 adj request adj content and send\$3 adj request   | USPAT                        | OR | ON | 2004/11/17 08:09 |
| S18<br>5 | 3    | content adj server same client same authenticat\$3 adj server   | USPAT                        | OR | ON | 2004/11/17 08:09 |
| S18<br>6 | 2    | ("5826014"   "5875296").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2004/11/17 08:21 |
| S18<br>7 | 2434 | authenticat\$4 same mobile same user\$2   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 08:21 |
| S18<br>8 | 457  | authenticat\$4 same mobile same user\$2 and (WAP or wireless adj application adj protocol)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 08:34 |
| S18<br>9 | 43   | authenticat\$4 same mobile same user\$2 and (WAP or wireless adj application adj protocol) and @ay<"2001"   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 08:35 |
| S19<br>0 | 187  | authenticat\$4 same mobile same user\$2 and (WAP or wireless adj application adj protocol) and @ay<"2002"   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 08:35 |
| S19<br>3 | 26   | ("20010042108"   "20020046283"   "5586312"   "5724424"   "5754772"   "5917485"   "5931917"   "5978840"   "6058378"   "6092196"   "6115744"   "6169992"   "6185567"   "6205480"   "6205482"   "6225995"   "6226752"   "6304915"   "6324539"   "6397220"   "6411995"   "6415288"   "6442611"   "6446117"   "6496821"   "6643679").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2004/11/17 14:11 |
| S19<br>7 | 458  | trust adj relationship  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:12 |
| S19<br>8 | 48   | trust adj relationship and authentication adj credentials   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:12 |
| S19<br>9 | 9    | trust adj relationship and authentication adj credentials and access adj privileges   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:16 |
| S20<br>0 | 4    | trust adj relationship and authentication adj credentials and access adj privileges   | USPAT                        | OR | ON | 2004/11/17 15:17 |
| S20<br>1 | 318  | single adj (sign-on or signon) and (email or e-mail) and access   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:19 |
| S20<br>2 | 194  | single adj (sign-on or signon) and (email or e-mail) and access and gateway   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:19 |
| S20<br>3 | 41   | single adj (sign-on or signon) and (email or e-mail) and access and gateway   | USPAT                        | OR | ON | 2004/11/17 15:27 |
| S20<br>4 | 2651 | gateway and authentication  | USPAT                        | OR | ON | 2004/11/17 15:27 |
| S20<br>5 | 466  | gateway and authentication and access same content same server  | USPAT                        | OR | ON | 2004/11/17 15:28 |
| S20<br>6 | 460  | gateway and authentication and access same content same server and request and network  | USPAT                        | OR | ON | 2004/11/17 15:28 |
| S20<br>7 | 414  | gateway and authentication and access same content same server and request same network   | USPAT                        | OR | ON | 2004/11/17 15:28 |
| S20<br>8 | 124  | gateway same authentication and access same content same server and request same network  | USPAT                        | OR | ON | 2004/11/17 15:29 |
| S20<br>9 | 3986 | content adj server  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:41 |
| S21<br>0 | 21   | content adj server and single adj (signon or sign-on)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:43 |
| S21<br>1 | 1    | content adj server and single adj (signon or sign-on)   | USPAT                        | OR | ON | 2004/11/17 15:41 |
| S21<br>2 | 399  | (content or content adj server) and single adj (signon or sign-on)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:43 |
| S21<br>3 | 305  | (content or content adj server) and single adj (signon or sign-on) and (mail or e-mail or email)  | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 15:43 |
| S21<br>4 | 64   | (content or content adj server) and single adj (signon or sign-on) and (mail or e-mail or email)  | USPAT                        | OR | ON | 2004/11/17 15:53 |
| S22<br>1 | 2    | delegate adj access and (single adj (signon or sign-on) or SSO)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 16:35 |
| S22<br>2 | 4    | (delegate adj access or restricted adj permissions) and (single adj (signon or sign-on) or SSO)   | US-PGPUB;<br>USPAT           | OR | ON | 2004/11/17 16:36 |

|          |      |   |   |    |    |                  |
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| S22<br>3 | 4    | (subset adj permissions or delegate adj access or restricted adj permissions) and (single adj (signon or sign-on) or SSO)   | US-PGPUB;<br>USPAT  | OR | ON | 2004/11/17 16:43 |
| S22<br>4 | 14   | (US-20010028636-\$ or US-20020157090-\$).did. or (US-5708780-\$ or US-6128738-\$ or US-6178511-\$ or US-6223291-\$ or US-6243816-\$ or US-6324648-\$ or US-6456857-\$ or US-6609198-\$ or US-6668322-\$ or US-6691232-\$ or US-6715080-\$ or US-6782080-\$).did.  | US-PGPUB;<br>USPAT  | OR | ON | 2004/11/18 09:11 |
| S22<br>5 | 1    | "6178511".pn.   | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/05 17:13 |
| S22<br>6 | 17   | ("6178511" "5944824" "6052785" "6275944" "6715080" "62825 75" "5586260" "6070244" "5241594" "6061650" "6067623" "625 3327" "6453418" "6223291" "6609198" "5822518" "2001002863 6").PN.  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/05 17:13 |
| S22<br>7 | 17   | ("6178511" "5944824" "6052785" "6275944" "6715080" "62825 75" "5586260" "6070244" "5241594" "6061650" "6067623" "625 3327" "6453418" "6223291" "6609198" "5822518" "2001002863 6").PN.  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/06 07:43 |
| S22<br>8 | 16   | ("5944824" "6052785" "6275944" "6715080" "6282575" "55862 60" "6070244" "5241594" "6061650" "6067623" "6253327" "645 3418" "6223291" "6609198" "5822518" "2001002863").PN.  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/06 07:43 |
| S22<br>9 | 0    | "6178511".PN. AND GATEWAY   | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/06 07:58 |
| S23<br>0 | 8    | ("6226752" "6609198" "6092196" "5875296" "6205480" "64217 68" "6178511" "6182229").PN.  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/06 07:59 |
| S23<br>1 | 6    | ("6226752" "6092196" "5875296" "6205480" "6421768" "61822 29").PN.  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/06 08:00 |
| S23<br>2 | 2    | ("6715080" "6178511" "6223291").pn. and gateway   | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/09 05:56 |
| S24<br>4 | 471  | authenticat\$3 and client and gateway and map and credential  | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/09 09:08 |
| S24<br>5 | 15   | mapping same authentication adj credentials   | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/09 09:08 |
| S24<br>6 | 98   | ("6151599" "6144959" "5944824" "5560008" "5719941" "5812784" "5764890" "5586260" "5682478" "5918228" "6006018" "6067623" "6154751" "6301661" "6510523" "6751677" "6075860" "6081508" "6205480" "6311269" "6438600" "4888801" "5696824" "6052785" "5636280" "5764887" "5864665" "6088451" "6148402" "6189103" "6195682" "5534855" "5590199" "5604490" "5619657" "5809144" "5870473" "5875296" "6006334" "6219439" "6219439" "6263446" "6356863" "6446206" "6643774" "6708170" "6874031" "5229764" "5276901" "5696880").pn. ("5757920" "5999711" "6119230" "5793866" "6047066" "6185316" "5768519" "5983353" "6601171" "6684330" "6742114" "6883716" "5235642" "5802276" "6189096" "6338064" "6606663" "6701353" "6748528" "6763459" "6769068" "6823452" "6836554" "6877026" "6101543" "6226752" "6226752" "6775262" "6836474" "4926478" "5218637" "5293424" "5442704" "5475756" "5491827" "5774551" "5778072" "5862223" "5937159" "6055637" "6105137" "6182892" "6609198" "6668322" "6691232" "6704752" "6728723" "6391627" "6405132" "6707809").pn. | US-PGPUB;<br>USPAT  | OR | ON | 2005/05/10 06:59 |
| S24<br>9 | 3    | ("6178511" "6223291" "6715080").pn.   | US-PGPUB;<br>USPAT  | OR | ON | 2005/08/25 09:38 |
| S25<br>0 | 521  | authenticat\$3 and client and gateway and map and credential  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/08/25 10:14 |
| S25<br>1 | 30   | map\$ with credential\$   | USPAT   | OR | ON | 2005/08/25 10:45 |
| S25<br>2 | 5816 | wireless with gateway   | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 10:45 |
| S25<br>3 | 93   | wireless with gateway and map\$ with authenticat\$  | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:02 |

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|----------|------|--|---|----|----|------------------|
| S25<br>4 | 0    | "the effect of the wap gateway on a wap network"   | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:02 |
| S25<br>5 | 0    | effect with wap with gateway with wap with network | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:02 |
| S25<br>6 | 725  | wap with gateway with wap with network             | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:02 |
| S25<br>7 | 725  | wap with gateway with network                      | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:14 |
| S25<br>8 | 31   | wap with gateway with network same authentication  | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:35 |
| S25<br>9 | 1959 | multi-tier   | US-PGPUB;<br>USPAT;<br>EPO; JPO                                   | OR | ON | 2005/08/25 11:35 |
| S26<br>0 | 928  | multi-tier   | USPAT   | OR | ON | 2005/08/25 11:35 |
| S26<br>1 | 6    | multi-tier same authentication                     | USPAT   | OR | ON | 2005/08/25 13:20 |
| S26<br>2 | 1    | "6178511".pn.                                      | USPAT   | OR | ON | 2005/08/25 12:13 |
| S26<br>3 | 2    | "6178511".pn.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/08/25 13:52 |
| S26<br>4 | 5    | ("6178511").URPN.                                  | USPAT   | OR | ON | 2005/08/25 12:16 |
| S26<br>5 | 115  | wireless adj gateway                               | USPAT   | OR | ON | 2005/08/25 12:17 |
| S26<br>6 | 6    | wireless adj gateway same authentication           | USPAT   | OR | ON | 2005/08/25 12:17 |